

FILE 'HOME' ENTERED AT 11:26:04 ON 16 MAR 2005

=> file agricola biosis
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILE 'AGRICOLA' ENTERED AT 11:26:15 ON 16 MAR 2005

FILE 'BIOSIS' ENTERED AT 11:26:15 ON 16 MAR 2005
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=> s soybean and (cotyledon(w)yellow)
L1 0 SOYBEAN AND (COTYLEDON(W) YELLOW)

=> s soybean and (yellow(W)cotyledon)
L2 4 SOYBEAN AND (YELLOW(W) COTYLEDON)

=> s l2 and (tawny(w)pubescence)
L3 0 L2 AND (TAWNY(W) PUBESCENCE)

=> s soybean and dull and yellow and luster and roundup
L4 0 SOYBEAN AND DULL AND YELLOW AND LUSTER AND ROUNDUP

=> s soybean and dull and yellow and luster
L5 0 SOYBEAN AND DULL AND YELLOW AND LUSTER

=> s soybean and dull and yellow
L6 0 SOYBEAN AND DULL AND YELLOW

=> s soybean and yellow
L7 1031 SOYBEAN AND YELLOW

=> s l7 and white
L8 98 L7 AND WHITE

=> s l8 and brown
L9 19 L8 AND BROWN

=> s l9 and tawny
L10 2 L9 AND TAWNY

=> d l10 1-2 ibib

L10 ANSWER 1 OF 2 AGRICOLA Compiled and distributed by the National
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(2005) on STN

ACCESSION NUMBER: 94:14369 AGRICOLA
DOCUMENT NUMBER: IND20372109
TITLE: Inheritance of red-buff seed coat in soybean
AUTHOR(S): Seo, Y.W.; Specht, J.E.; Graef, G.L.; Graybosch, R.A.
AVAILABILITY: DNAL (64.8 C883)
SOURCE: Crop science, July/Aug 1993. Vol. 33, No. 4. p.
754-758
Publisher: Madison, Wis. : Crop Science Society of
America, 1961-
CODEN: CRPSAY; ISSN: 0011-183X
NOTE: Includes references
PUB. COUNTRY: United States; Wisconsin
DOCUMENT TYPE: Article
FILE SEGMENT: U.S. Imprints not USDA, Experiment or Extension
LANGUAGE: English

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 ACCESSION NUMBER: 1993:428143 BIOSIS
 DOCUMENT NUMBER: PREV199396082768
 TITLE: Inheritance of red-buff seed coat in **soybean**.
 AUTHOR(S): Seo, Y. W.; Specht, J. E. [Reprint author]; Graef, G. L.;
 Graybosch, R. A.
 CORPORATE SOURCE: Dep. Agron., Univ. Nebraska, Lincoln, NE 68583-0915, USA
 SOURCE: Crop Science, (1993) Vol. 33, No. 4, pp. 754-758.
 CODEN: CRPSAY. ISSN: 0011-183X.
 DOCUMENT TYPE: Article
 LANGUAGE: English
 ENTRY DATE: Entered STN: 22 Sep 1993
 Last Updated on STN: 23 Sep 1993

=> d 110 2 ab

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 AB In **soybean** (*Glycine max* (L.) Merr.), five loci ((I/i-k/i-i/i,
 R/r-m/r, T/t, W1/w1, O/o) interact to produce seed coat and/or hilum color
 phenotypes of gray (G), **yellow** (Y), black (B1), imperfect black
 (Ib), **brown** (Br), striped **brown-black**, red-
brown (Rbr), or buff (Bf). The T/t and W1/w1 loci also condition
tawny/gray pubescence and purple/**white** flowers,
 respectively. T236, a **white**-flowered gray-pubescence accession
 in the **soybean** genetic collection, has a unusual red-buff (Rbf)
 seed coat. The genetic relationship of Rbf to the other seed coat colors
 was not known. To evaluate this relationship, T236 was mated to six
soybean lines of known genotype relative to the five loci. F-2
 individuals were classified as to flower, pubescence, seed coat, and hilum
 color. In all crosses, only F-2 plants with while flowers, gray
 pubescence, and an R- genotype produced Rbf seed coats or hila. The F-2
 segregation ratios were not compatible with an inheritance model for Rbf
 that invoked allelic segregation at a sixth locus. Indeed, Rbf seed coat
 seemed to be conditioned by a new allele at the T/t locus, symbolized as
 t-r. While there was no perceptible difference in the gray pubescence
 phenotypes conditioned by the t and t-r alleles, the t-r allele was
 detectable in an R-w/w1 genetic background, where the allelic series
 T/t-r/t produced the seed coat color phenotypes of B1/Rbf/Bf (in
 left-to-right dominance-recessiveness order). In all other backgrounds
 (i.e., R-W1-, rrW1-, and rrw1w1), the seed coat colors produced by t and
 t-r were identical. The currently accepted model for the inheritance of
 anthocyanidin pigments in the **soybean** seed coat is that: (i) R
 necessary for anthocyanidin production, (ii) T is needed for
 dihydroxylation of the B-ring, (iii) W1 is needed for trihydroxylation of
 the B-ring. Our postulation that the Rbf seed coat phenotype requires an
 R-t-r-w1w1 genotype is consistent with this theory. It is also consistent
 with the report that pelargonidin, a monohydroxylated B-ring
 anthocyanidin, is the predominant pigment in the Rbf seed coats of strain
 T236.

=>

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:44:09 ON 16 MAR 2005

=> file agricola biosis
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILE 'AGRICOLA' ENTERED AT 10:44:17 ON 16 MAR 2005

FILE 'BIOSIS' ENTERED AT 10:44:17 ON 16 MAR 2005
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=> s schultze d? au
TERM 'D?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
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Desk by telephone or via SEND in the STNMAIL file.

=> s schultze d? /au
L1 64 SCHULTZE D?

=> s l1 and soybean
L2 12 L1 AND SOYBEAN

=> s l2 and 0509236
L3 0 L2 AND 0509236

=> s l2 and roundup
L4 0 L2 AND ROUNDUP

=> s l2 and cultivar
L5 12 L2 AND CULTIVAR

=> s l5 and cotelydon(w)color
L6 0 L5 AND COTELYDON(W) COLOR

=> s l5 and cotyledon(w)color
L7 0 L5 AND COTYLEDON(W) COLOR

=> d l5 1-12 ti

L5 ANSWER 1 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Soybean cultivar 19704230.

L5 ANSWER 2 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Soybean cultivar 0332132.

L5 ANSWER 3 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Soybean cultivar S010356.

L5 ANSWER 4 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Soybean cultivar 19705120.

L5 ANSWER 5 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Soybean cultivar S010336.

L5 ANSWER 6 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI Soybean cultivar S010351.

L5 ANSWER 7 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI Soybean cultivar S010346.

L5 ANSWER 8 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI Soybean cultivar 0332119.

L5 ANSWER 9 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI Soybean cultivar 0332123.

L5 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
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 TI Soybean cultivar B3491.

L5 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
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 TI Soybean cultivar B0591.

L5 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
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 TI Soybean cultivar B0592.

=> d l5 1-12 ibib

L5 ANSWER 1 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 ACCESSION NUMBER: 2005:21554 BIOSIS
 DOCUMENT NUMBER: PREV200500024757
 TITLE: Soybean cultivar 19704230.
 AUTHOR(S): Schultze, Dennis L. [Inventor, Reprint Author]
 CORPORATE SOURCE: ASSIGNEE: Mertec LLC
 PATENT INFORMATION: US 6828486 December 07, 2004
 SOURCE: Official Gazette of the United States Patent and Trademark
 Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
 ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE: Patent
 LANGUAGE: English
 ENTRY DATE: Entered STN: 29 Dec 2004
 Last Updated on STN: 29 Dec 2004

L5 ANSWER 2 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 ACCESSION NUMBER: 2005:21553 BIOSIS
 DOCUMENT NUMBER: PREV200500024755
 TITLE: Soybean cultivar 0332132.
 AUTHOR(S): Schultze, Dennis L. [Inventor, Reprint Author]
 CORPORATE SOURCE: ASSIGNEE: Mertec LLC
 PATENT INFORMATION: US 6828484 December 07, 2004
 SOURCE: Official Gazette of the United States Patent and Trademark
 Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
 ISSN: 0098-1133 (ISSN print).

DOCUMENT TYPE: Patent
 LANGUAGE: English
 ENTRY DATE: Entered STN: 29 Dec 2004
 Last Updated on STN: 29 Dec 2004

L5 ANSWER 3 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 ACCESSION NUMBER: 2005:21552 BIOSIS
 DOCUMENT NUMBER: PREV200500024753
 TITLE: Soybean cultivar S010356.

AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6828482 December 07, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 4 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:21469 BIOSIS
DOCUMENT NUMBER: PREV200500024758
TITLE: **Soybean cultivar** 19705120.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6828488 December 07, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 5 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:21468 BIOSIS
DOCUMENT NUMBER: PREV200500024756
TITLE: **Soybean cultivar** S010336.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6828485 December 07, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 6 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:21467 BIOSIS
DOCUMENT NUMBER: PREV200500024754
TITLE: **Soybean cultivar** S010351.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6828483 December 07, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 7 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:21466 BIOSIS
DOCUMENT NUMBER: PREV200500024752
TITLE: **Soybean cultivar** S010346.

AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6828481 December 07, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 8 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:21215 BIOSIS
DOCUMENT NUMBER: PREV200500024393
TITLE: **Soybean cultivar** 0332119.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6825403 November 30, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Nov 30 2004) Vol. 1288, No. 5.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 9 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:21120 BIOSIS
DOCUMENT NUMBER: PREV200500024392
TITLE: **Soybean cultivar** 0332123.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6825402 November 30, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Nov 30 2004) Vol. 1288, No. 5.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Dec 2004
Last Updated on STN: 29 Dec 2004

L5 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
ACCESSION NUMBER: 2003:366066 BIOSIS
DOCUMENT NUMBER: PREV200300366066
TITLE: **Soybean cultivar** B3491.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6590144 July 08, 2003
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (July 8 2003) Vol. 1272, No. 2.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 6 Aug 2003
Last Updated on STN: 6 Aug 2003

L5 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
ACCESSION NUMBER: 2003:354773 BIOSIS

DOCUMENT NUMBER: PREV200300354773
TITLE: **Soybean cultivar** B0591.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Mertec LLC
PATENT INFORMATION: US 6586660 July 01, 2003
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (July 1 2003) Vol. 1272, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 30 Jul 2003
Last Updated on STN: 30 Jul 2003

L5 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN

ACCESSION NUMBER: 2003:302240 BIOSIS
DOCUMENT NUMBER: PREV200300302240
TITLE: **Soybean cultivar** B0592.
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]
CORPORATE SOURCE: Olivia, MN, USA
ASSIGNEE: Mertec LLC, West Point, IA, USA
PATENT INFORMATION: US 6570073 May 27, 2003
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (May 27 2003) Vol. 1270, No. 4.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Jun 2003
Last Updated on STN: 25 Jun 2003

Refine Search

Search Results -

| Terms | Documents |
|------------------------|-----------|
| L8 and(hilum adj5 tan) | 1 |

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 IBM Technical Disclosure Bulletins

Search: L9

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Search History

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| side by side | | | result set |
| <i>DB=USPT; PLUR=YES; OP=OR</i> | | | |
| <u>L9</u> | L8 and(hilum adj5 tan) | 1 | <u>L9</u> |
| <u>L8</u> | L6 and (coat adj5 yellow) | 14 | <u>L8</u> |
| <u>L7</u> | L6 and (cotelydon adj4 yellow) | 0 | <u>L7</u> |
| <u>L6</u> | L5 and (maturity adj3 0) | 14 | <u>L6</u> |
| <u>L5</u> | L1 and soybean and roundup | 25 | <u>L5</u> |
| <u>L4</u> | L1 and L3 | 0 | <u>L4</u> |
| <u>L3</u> | 0509236 and soybean | 0 | <u>L3</u> |
| <u>L2</u> | 0509236 | 2 | <u>L2</u> |
| <u>L1</u> | schultze-dennis-\$.in. | 28 | <u>L1</u> |

END OF SEARCH HISTORY